TM-240 -A
0501

BOOSTER TO MAIN RING TRANSFER SYSTEM:

MAGNET NOMENCLATURE

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NO. OF UNITS	NAL DRAWING CODE NUMBER	OFFICIAL DESIGNATION	FUNCTIONAL DESCRIPTION
1	MKN-01	BOOSTER NOTCHER	Pulsed transmission-line type of one-turn magnet designed to chop out 2 R.F. bunches in the Booster at the beginning of the Booster cycle.
1	MK-01 MK-02 MK-03 MK-04	BOOSTER FAST KICKER	A pulsed transmission-line type of one-turn magnet designed to vertically kick the Booster 8 GeV beam into the Booster pulsed extractor aperture. This fast kicker unit initiates the Booster extraction process.

:MAGNET NOMENCLATURE:

NO. OF UNITS	NAL DRAWING CODE NUMBER	OFFICIAL DESIGNATION	FUNCTIONAL DESCRIPTION
1	MP-01	BOOSTER PULSED EXTRACTOR	Pulsed one-turn septum vertical bending magnet which vertically ejects the Booster beam from the Booster orbit.
2	ML-01	BOOSTER PULSED PITCHER	Pulsed one-turn vertical bending magnet which flattens out the rising extracted beam leaving the Booster.
4	MQ-01 MQ-02 MQ-10 MQ-11	COMBINER QUADS	Quadrupole magnet group primarily designed to eliminate the Booster extracted beam dispersion.
5	MH-10 MH-11 MH-40 MH-41 MH-50	HORIZONTAL DIPOLES- MHIA MHIB MHIIA MHIIB MHIII	Horizontal bending magnets that guide the 8 GeV beam centre-line into the correct horizontal channel for injection into the Main Ring.
3	MV-10 MV-11 MV-12	VERTICAL DIPOLES- MVDIA MVDIB MVDII	Vertical bending magnets that guide the 8 GeV beam centre-line into the DUMP area.

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8	MQ-12 MQ-13 MQ-14 MQ-15 MQ-40 MQ-41 MQ-42 MQ-43	MATCHING QUADS	Quadrupole magnet group designed to prepare the 8 GeV beam for matching to the Main Ring lattice Beta function.
3	MQ-44 MQ-45 MQ-46	DISPERSION TRIPLET	Quadrupole magnet triplet array designed primarily to prepare the beam dispersion for proper match to the Main Ring lattice.
2	MQ-50 MQ-51	DISPERSION DOUBLET	Quadrupole magnet doublet array designed primarily to accomplish the final dispersion match to the Main Ring lattice.
1	MV-60	MAIN RING D. C. PITCHER	D. C. vertical C-core magnet that pitches the beam down towards the Main Ring vacuum envelope.
1	MV-61	MAIN RING D.C. INFLECTOR	D. C. vertical C-core magnet that begins the 3-stage inflection process.

NO. OF UNITS	NAL DRAWING CODE NUMBER	OFFICIAL DESIGNATION	FUNCTIONAL DESCRIPTION
1	MP-70	MAIN RING PULSED INFLECTOR	Pulsed one-turn septum vertical bending magnet that completes the second stage of the inflection process into the Main Ring.
1	MK-90	MAIN RING FAST KICKER	A pulsed transmission-line type of one-turn magnet designed to complete the final stage of the inflection process.